#### FOR THE RECORD:

- 1. The reference listed drug for this product is DDAVP®(Rhone-Poulenc Rorer; N17922; Approved April 13, 1998).
- 2. The following patents are in existence for this product:

	Patent Certification
Patent # Expires	by Applicant
5500413 6-29-2013	
(Process for manufacture)	

5674850 12-23-2103 Paragraph IV
(High purity desmopressin (Innovator has decided
in large single batches and not to file suit)
method of treating diabetes
insipidus)

?

5498598 6-29-2013 (Composition for Nasal Administration of desmopressin)

5482931 6-29-2013 (Stabilized pharmaceutical peptide compositions)

Currently does not apply but applicant states it may reformulate to an unrefrigerated formulation similar to innovator's.

5763407 12-23-2013 (high purity desmopressin produced in large single batches and a method of treating diabetes insipidus)

Vol. 5.1, page 9., telecon dated 7-17-97, and Vol. 1.1, page 2 of New Correspondence.

4. Container/Closure

This product will be packaged in a 6 cc amber glass vial with nasal pump and dip tube. Actuator Head, nasal pump and overcap.

- 5. Bausch & Lomb will perform all manufacturing. all outside firms are utilized for testing. See pages 216 and 325.
- 6. Package Line

The innovator packages this product in a 5 mL spray bottle and a 2.5 mL vial with rhinal tube applicators.

The generic intends to market this product in a 5 mL spray bottle.

7. Storage/Dispensing Recommendations

USP:

Not USP.

NDA:

Firm has changed the formulation of its product. DDAVP Nasal Solution can now be stored at room temperature.

ANDA:

Store in refrigerator at  $2^{\circ}$  -  $8^{\circ}$ C ( $36^{\circ}$ - $46^{\circ}$ F). When traveling, product will maintain stability for up to 3 weeks when stored at room temperature,  $22^{\circ}$ C ( $72^{\circ}$  F).

NOTE: Since the formulation change for DDAVP occurred after B&L's application had been submitted, it was decided that OGD's approval would be based on the previous formulation and labeling for DDAVP which included the preservative chlorbutanol and instructions to refrigerate the product. However, all new applications will have to be Q&Q with the new formulation.

B&L have committed to reformulating their product to be the same as the innovator and will keep the Agency informed.

8. The newly approved carton labeling has revised the "Note to pharmacist" box to read:

Detach patient's instructions from package insert and dispense with spray pump. Since labeling is in FPL and this change is minor, B&L will be asked to revise their carton labeling at a future time.

Date of Review: December 7, 1998
Date of Submission: November 25, 1998

Reviewer: /S/

Date: 12/7/45

Team Leader:

Date:

/S/

12/8/98

15/ -- -2/8/98

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5498598 6-29-2013	
(Composition for Nasal Admin-	
istration of desmopressin)	

5482	93	1			6-2	9-2	013	}
(Sta	bi	liz	ed j	pha	rma	ceu	tic	al
pept	id	e c	amo	osi	tio	ns)		

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Date of Review: October 23, 1998
Date of Submission: October 6, 1998

Reviewer:

18/

Date: 11/30/95

Team Leader:

Date:

/\$/

11/30/98

# ANDA APPROVAL SUMMARY

ANDA:		CHEMIST:	DATE:						
	74-830	Eugene L. Schaefer, Ph.D.	January 5, 1999						
DRUG F	PRODUCT:								
	Desmopressin Acetate FIRST	GENERIC FOR THIS DE	UG PRODUCT						
FIRM:									
	Bausch & Lomb Pharmaceuticals, Inc.								
DOSAG	E FORM:	STRENGTH:							
	Nasal Solution	0.01%							
cGMP:	The facilities were found to be acceptable	on 2/20/98.							
BIO:	The applicant requested a waiver. The Bir 12/3/98.	o division issued a " <b>no further c</b>	<b>juestions</b> " letter on						
VALIDA	TION - (Description of dosage form same as firm'	s):							
	An MV request was sent to the Division of Drug Analysis, STL, because of need for special equipment, on 9/4/97. I received a report from Dr. Henry Drew on 1/11/99. The methods are <b>satisfactory</b> .								
STABIL	ITY:								
	The containers in the stability studies are	identical to those in the contained	er section.						
LABELI	NG:								
	Teresa Watkins recommended approval of	on 12/7/98.							
STERIL	ZATION VALIDATION (If applicable):								
	Satisfactory per review of Ken Muhvich, F	Ph.D. on 7/25/96.							
SIZE OF	BIO BATCH (Firm's source of NDS ok?):								
	There was no bio batch because a waiver as found adequate on 11/25/								
SIZE OF	STABILITY BATCHES (If different from bio batch	, were they Manufactured via the sai	ne process?):						
Quinting action	The size of the exhibit batches wast	ers. The maximum size of prod	uction batches will be						
PROPO	SED PRODUCTION BATCH - MANUFACTURING P	ROCESS THE SAME?:							
	The proposed production batchite exhibit batch.	ers . The manufacturing process	s is identical to the						
Signatu	re of charact. 1/13/99	Signature of supervisor:							
interpretation of the second	Eugene L. Scnaerer, Ph.D.	Michael Smela 🔍							

# CDER Establishment Evaluation Report for December 18, 1998

of 2 Page 1

Application:

ANDA 74830/000

Priority:

Org Code: 600

Stamp: 03-JAN-1996 Regulatory Due:

Action Goal:

District Goal: 03-MAR-1997

**BAUSCH AND LOMB** 

Applicant:

Brand Name:

8500 HIDDEN RIVER PKY

Established Name: DESMOPRESSIN ACETATE

**TAMPA, FL 33637** 

Generic Name:

Dosage Form: SOL (SOLUTION)

Strength:

0.01%

FDA Contacts:

J. BUCCINE

(HFD-617)

301-827-5848 , Project Manager

Overall Recommendation:

ACCEPTABLE on 20-FEB-1998 by M. EGAS (HFD-322) 301-594-0095 ACCEPTABLE on 21-OCT-1996 by S. FERGUSON (HFD-324) 301-827-0062

Establishment: 1049418

DMF No:

ADA No.

Profile: CTL

1

OAI Status: NONE

Responsibilities: FINISHED DOSAGE OTHER

TESTER

Last Milestone: OC RECOMMENDATION Milestone Date: 15-DEC-1997

Decision:

**ACCEPTABLE** 

Reason:

**BASED ON PROFILE** 

Establishment: 1052807

DMF No:

BAUSCH AND LOMB PHARMACEUT AADA No:

8500 HIDDEN RIVER PKY

**TAMPA, FL 33637** 

Profile: LIQ

OAI Status: NONE

Responsibilities: FINISHED DOSAGE

Last Milestone: OC RECOMMENDATION

MANUFACTURER

Milestone Date: 24-DEC-1997

Decision:

ACCEPTABLE

Reason:

DISTRICT RECOMMENDATION

Establishment: 2210008

DMF No:

AADA No:

Profile: CTL

OAI Status: NONE

Last Milestone: OC RECOMMENDATION

Responsibilities: FINISHED DOSAGE OTHER

Milestone Date: (15-DEC-1997

Decision:

ACCEPTABLE

Reason:

**BASED ON PROFILE** 

TESTER

# CDER Establishment Evaluation Report for December 18, 1998

Page 2 of 2

Establishment: 1419992

DMF No:

ADA No:

Profile: CTL

OAI Status: NONE

Last Milestone: OC RECOMMENDATION

Milestone Date; 15-DEC-1997

Decision:

ACCEPTABLE

Reason:

**BASED ON PROFILE** 

Establishment: 2529719

DMF No:

AADA No:

Profile: CTL

OAI Status: NONE

Last Milestone: OC RECOMMENDATION

Decision:

Milestone Date: 20-FEB-1998 **ACCEPTABLE** 

Reason:

DISTRICT RECOMMENDATION

Establishment: 9610703

DMF No:

AADA No:

Profile: CSN

OAI Status: NONE

Last Milestone: OC RECOMMENDATION

Milestone Date: 15-DEC-1997

Decision:

**ACCEPTABLE** 

Reason:

**BASED ON PROFILE** 

Responsibilities: DRUG SUBSTANCE

Responsibilities: FINISHED DOSAGE RELEASE

TESTER

Responsibilities: FINISHED DOSAGE OTHER

**TESTER** 

**MANUFACTURER** 

# RECORD OF TELEPHONE CONVERSATION Office of Generic Drugs Division of Chemistry 1 Branch 2 HFD-625

FROM: Michael J. Smela, Jr. Team Leader DATE: 6/23/98

NAME/TITLE OF INDIVIDUAL(S): Joe Hawkins FIRM:B & L PRODUCT NAME:Desmopressin Nasal TEL #: 8139757775 Reference:ANDA 74830

Notes of Conversation: I referred to the 6/17/98 amendment which responds to bioequivalence deficiencies. I advised the applicant that amendments should not be classified as facsimile/minor/major unless they specifically respond to a deficiency requesting such. I said this amendment is in response to bio deficiency and is not a complete response to the minor NA issued 1/27/98 from chemistry. I noted that deficiencies in have not been responded to.

I advised that the 6/17/98 amendment would be considered coorespondence which will not start the review clock. I advised that a minor amendment in response to the 1/27/98 communication will be needed to start the clock after the DMF has been responded. Mr. Hawkins thanked me for the information and understood that his ANDA is not now in the que for review.

6/23/98

SIGNATURE OF OGD REPRESENTATIVES:

Location of Electronic Copy:

X:\new\firmsam\bausch\telecons\062398

#### RECORD OF TELEPHONE CONVERSATION/MEETING

Mr. Smela and Dr. Schaefer called Mr. Chmielewski re fax amendment of 12/22/98. They relayed the oral equivalent of the following:

"We have concerns about the proposed regulatory method:

- Page 53 of the amendment indicates an in-house standard could be used, but the preparation of an in-house standard stock solution has been deleted from p 50, and the calculation based on an in-house standard has been deleted from p 52.
- In the chromatogram on page 059, please label the three peaks eluting before Unknown 1, and the peak eluting at 3.7 minutes.
- desmopressin c. Since ]desmopressin have been and detected by the method (page 28), and since deamidation and racemization are known potential degradation pathways for peptides and proteins, these impurities should be included in the related substances chromatogram."

Mr. Chmielewski said he would have the method revised.

Mr. Smela asked if B&L had provided commitment to cooperate w FDA re MV issues. Mr. Chmielewski reminded us they had.

X:\NEW\FIRMSAM\BAUSCH\TELECONS\74830. 005

12/30/98

ANDA NUMBER 74-830

TELECON

INITIATED BY MADE APPLICANT/ BY X TELE. SPONSOR

X FDA

\_\_IN PERSON

PRODUCT NAME Desmopressin Acetate Nasal

Solution

FIRM NAME B&L

NAME AND TITLE OF PERSON WITH WHOM CONVERSATION WAS HELD Donald H. Chmielewski, Director, Regulatory

TELEPHONE NUMBER

Affairs

813-975-7786

SIGNATURE ED 12/30/ 198

ELSchaefer, Chemist, Br II MSmela, TL, Br II

## RECORD OF TELEPHONE CONVERSATION/MEETING

~11:20 am:

Dr. Schaefer called Mr. Chmielewski. Dr. Cai was a witness. Dr. Schaefer relayed the oral equivalent of the following:

"We have additional concerns about Response A.1.c of your facsimile amendment of 12/22/98, and about Response C of your telephone amendment of 12/30/98.

- a. We repeat our request for release and stability limits for "Other Individual Chromatographic Related Substance" as determined by method
- b. Comparison of Attachment 2 of the telephone amendment with Attachments D and F of the method suggests potential interference with the "ldesmopressin peak by the mobile phase peak eluting at approximately

~3:00 p.m.:

Mr. Chmielewski and others called Dr. Schaefer and Mr. Smela. The representatives of B&L agreed to set release & stability limits for "Other ... Substance" at NMT ... They committed to monitor the peak at as an unknown impurity, and if its level rises above to conduct an investigation to ID the peak, and relative contribution of related substance vs. mobile phase.

**DATE** 1/4/99

ANDA NUMBER 74-830

TELECON

INITIATED BY MADE
\_ APPLICANT/ BY
SPONSOR X TELE.

X FDA

\_\_ IN PERSON

PRODUCT NAME

Desmopressin Acetate Nasal Solution 0.01%

FIRM NAME

B&L

NAME AND TITLE OF PERSON WITH WHOM CONVERSATION WAS HELD

Am: DChmielewski; P.m.: DChmielewski, MBrubaker, KMoorthy, DWhitaker, & BKatimy

**TELEPHONE NUMBER** 813-975-7786

SIGNATURE

ELSchaefer & BCai, Chemists; MSmela, TL; Br II

/**S**/

#### MEMORANDUM

# DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

DATE: September 2, 1997

FROM: Douglas L. Sporn

Director

Office of Generic Drugs

SUBJECT: Safety and Effectiveness Determination regarding the withdrawn formulation of DDAVP (Desmopressin Acetate) Nasal Solution 0.01%.

TO:

Howard Muller

Regulatory Policy Staff

MPNI/Room 116

An ANDA filed with the Office of Generic Drugs is approaching the approval stage. The Office of Generic Drugs is requesting that the Federal Register publish the Agency's determination.

Please initiate the publication of this Federal Register Notice regarding the attached determination from the Division of Metabolism and Endocrine that the prior, refrigerated formulation of NDA DDAVP (Desmopressin Acetate) Nasal Solution was not withdrawn due to safety or effectiveness issues in accord with 21 CFR 314.161(a)(1) and (e).

Thank you,

C	70	~	٠.												
٦	_	_	٠.												

x:\new\firmsam\bausch\memo\74-830.mem

# **MEMORANDUM**

## DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

DATE:	28 October 1997	
FROM:	Enid Galliers Chief, Project Management Staff, Division of Metabolic and Endocrine Drug Products (HFD-510)	
SUBJECT:	Request for reasons applicant stopped marketing a formulation of I Nasal Spray that required refrigeration (NDA 17-922/SCF-023)	Desmopressin Acetate
TO:	Ms. Cecelia Parese, HFD-615, OGD THROUGH: Elton Herman, M.D. Medical Officer, DMEDP  Stephen K. Moore, Ph.D. Chemistry Team 1 Leader, DNDC II  Solomon Sobel, M.D.	11/4/97 9)
	Director, Division of Metabolic and Endocrine  Drug Products (HBD-510)	15/ HFD-102 11/13/97
On Augu	st 7, 1996, DMEDP approved	र) supplemental

application which provided for a formulation of desmopressin acetate nasal spray that can be stored at room temperature. The firm stated that it would not market the product that required refrigeration after receiving approval for the room temperature formulation. RPR indicated in an April 11, 1995, amendment to the supplemental application that the change provides the patient with a nonrefrigerated product for ease of convenience in storage. There were no safety or effectiveness issues responsible for this change.

PUB	F HEALTH AND HUMAN LIC HEALTH SERVICE D ORUG ADMINISTRAT		REQUEST FOR CONSULTATION					
TO (Division/Office)			FROM:					
ODEII-Attn:Lea	h Ripper, Forwai	ed to HFD-510	HFD-600 Office of Gene	aric Drugs				
DATE	IND NO.	NDA NO.	TYPE OF DOCUMENT	DATE OF DOCUMENT				
8/6/97			Memo	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
NAME OF ORUG	<del>ra ing Pangungang pangungan na manakatab</del> Pangungan	PRIGRITY CONSIDERATIO	N CLASSIFICATION OF DRUG	DESIRED COMPLETION DATE				
Desmopressin A	cetate	High	Antidiuretic Hormone	9/6/97				
NAME OF FIRM	The state of the s	The state of the s		3/3/3/				
<del>an da sa sa</del>	<del>- Carlos de La Carlos de Carlos de</del> Carlos de Carlos de	REASON FOR	REQUEST					
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<u></u>	<del>arina in an arangang irang analah .</del>							
NEW PROTOCOL		PRE-NDA MEETING		E TO DEFICIENCY LETTER				
PROGRESS REPOR		☐ END OF PHASE IT MEE	TING FINAL PR	INTED LABELING				
☐ NEW CORRESPOND		RESUBMISSION	☐ LABELING	G REVISION				
D DRUG ADVERTISIN	<b>√</b> G.	SAFETY/EFFICACY		L NEW CORRESPONDENCE				
ADVERSE REACTION	ON REPORT	D PAPER NOA		ATIVE REVIEW				
MANUFACTURING	CHANGE/ADDITION	CONTROL SUPPLEMEN						
MEETING PLANNE								
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	<del></del>			ICATION BRANCH				
TYPE A OR B NDA			CHEMISTRY					
END OF PHASE II M			☐ PHARMACOLOGY					
CONTROLLED STU			BIOPHARMACEUTICS					
PROTOCOL REVIEW	Mga 도시를 하고 하는 등 다.		☐ OTHER					
OTHER								
	a	III. BIOPHARI	MACEUTICS	<del>dan dan dan dan dan dan dan dan dan dan </del>				
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HASE IV STUDIES			PROTOCOL-BIOPHARMACEUTICS					
			IN-VIVO WAIVER REQUEST					
<u> </u>		IV. DRUG EX	PERIENCE					
☐ PHASE IV SURVEIL	LANCE/EPIDEMIOLOG	Y PROTOCOL	REVIEW OF MARKETING EXP	ERIENCE, DRUG USE AND SAFETY				
DRUG USE a.g. POP	ULATION EXPOSURE,	SSOCIATED DIAGNOSES	SUMMARY OF ADVERSE EXPE	FRIENCE				
CASE REPORTS OF	SPECIFIC REACTIONS	List belowi	POISON HISK ANALYSIS					
$\square$ comparative als	K ASSESSEMENT ON GE	NERIC DRUG GROUP						
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	CLINIC	AL	☐ PRECLINICAL					
COMMENTS/SPECIAL I		dditional sheets if necessary)						
			클 바일하면 가장 동안 모든 보는 그를					
Please provide	a determination	whether the prev	ious refrigerated formu	lation, approved				
cafaty or offer	, DDAVP (Desmop) ctiveness reasor	ressin Acetate) Na:	sal Solution, 0.01%, was	s withdrawn for				
sarech or erred	ctveness reasor	$_{12}, eta$ , which is the state of $\Sigma$	01 01 + 4					
Please return t	the completed co	m=11+ +a. Y-	lease Refer to the	e allached				
	and completed co	Maure co:	neno.					
Office of Gener	cic Drugs							
HFD-600								
MPN II								
Attention: Ced	celia Parise							
Room N-276		불 병을 막힌 글로마글로 생겼다.						
If you need fur	rther information	on please contact:						
Cecelia Parise		e Perugana Caramatan P						
827-5845								
Thank You								
SIGNATURE OF REQU	ESTEP /	della	METHOD OF DELIVERY (Check or	16)				
Cecelia Parise	/5/	, 8/6/97	Mail Dhand					
SIGNATURE OF RECEI			SIGNATURE OF DELIVERER					

### MEMORANDUM

DEPARTMENT OF HEALTH AND HUMAN SERVICES PUBLIC HEALTH SERVICE FOOD AND DRUG ADMINISTRATION CENTER FOR DRUG EVALUATION AND RESEARCH

DATE:

August 6, 1997

FROM:

Douglas L. Sporn

Director

Office of Generic Drugs (OGD)

SUBJECT: OGD is seeking a determination whether the refrigerated product approved under, NDA

AVP (Desmopressin Acetate) Nasal Solution, 0.01%, was withdrawn from marketing due to safety or effectiveness reasons.

TO:

Solomon Sobel, M.D.

Director

Division of Metabolic and Endocrine Drug Products

THROUGH: James M. Bilstad, M.D.

Director

Office of Drug Evaluation II

In accord with 21 CFR 314.161(a)(1)&(c) the Agency may make a determination whether a listed drug that has voluntarily withdrawn from sale was withdrawn for safety or effectiveness reasons prior to approving an abbreviated new drug application that refers to the listed drug. The Agency shall publish its determination in the Federal Register.

The Office of Generic Drugs (OGD) has a pending application for Desmopressin Acetate Nasal Solution, 0.01%, that relies upon the listed drug DDAVP (refrigerated) that was withdrawn from marketing. This ANDA was submitted to OGD prior to the approved reformulation of the reference listed drug. The formulation of the ANDA is qualitatively and quantitatively the same as the old refrigerated formulation of DDAVP. Before the ANDA can be approved, the Agency must seek a determination whether the drug product was withdrawn for safety or effectiveness reasons. The determination will then be forwarded to the Regulatory Policy Staff for publication in the Federal Register.

OGD has obtained informal information via E-Mail (see attachments), that the product was reformulated for patient convenience. The previous formulation required refrigeration and the new formulation can be stored at room temperature, which is more convenient for patients. In addition, information was provided to the OGD that the new room temperature formulation is bioequivalent to the old refrigerated formulation.

At the behest of the Office of Chief Counsel, OGD is requesting a formal determination from the Division of Metabolism and Endocrine Drug Products whether the previously approved formulation of DDAVP Nasal Solution, 0.01%, which required refrigeration has been withdrawn from sale for safety or effectiveness reasons.

We are looking forward to your response. Because the pending approval of this application is dependent upon your determination, we ask that you expedite this request. If you have any questions or require further information regarding this issue you may contact Cecelia Parise, Special Assistant to the Director, Office of Generic Drugs at 301-827-5845.

## RECORD OF TELEPHONE CONVERSATION/MEETING

After attending an internal OGD meeting, I called the sponsor and provided the following information.

Reference was made to B&L correspondence dated 11/1/96 noting that the RLD changed formulations. The change allows the RLD to be stored without refrigeration. The proposed generic drug requires refrigeration.

OGD is willing to proceed with the review approval process provided that the innovator's reason for changing the formulation does not involve safety or efficacy concerns. In order to resolve this issue, B&L should file a citizen petition under CFR 314.122. The petition will require review by the new drug review division and should be submitted asap. CGD will work closely with NDE for timely resolution. In addition, OGD encourages B&L to reformulate to match the RLD's new formulation.

B&L is already developing the new formulation and plans to file a supplement. They would greatly appreciate a timely petition review that would not delay approval of their ANDA.

cc:

DATE 7/17/97

ANDA NUMBERS: 74-830

TELECON

INITIATED BY FDA

PRODUCT NAME
Desmopressin
Acetate Nasal
Solution

FIRM NAME

Bausch & Lomb

NAME AND TITLE OF PERSON WITH WHOM CONVERSATION WAS HELD

Joseph Hawkins

TELEPHONE NUMBER

(813) 975-7775

SIGNATURE

Joseph Buccine